

It's not the syllabus or the slides, it's the trainer experience!

Advanced Windows Win32 (SDK) Programming

5 days 40 hours

Abstract

The Win32 API Interface documented and exposed in the Windows SDK give an experienced programmer access to Windows operating system services and capabilities that are not exposed by standard programming languages. Knowledge of these features give a professional programmer tools and insights on how to solve specific development issues faster, better and in a more performant way. This course, based on the Microsoft MSDN SDK Device driver and OS advanced services documentation, introduces using presentations, demos, code walks and practical labs advanced OS API available to the skilled developer.

Workshop Targets

- Expose practical advanced Windows operating system services to proficient developers.

Target Audience

- Windows programmers desire to learn advanced services exposed by the OS.

Prerequisites

- Experienced programmers.
- Knowledge of "C" programming language is required
- Experience in Visual Studio IDE is recommended

Topics

- Advanced Process and Thread management
- Advanced DLL creation, management and usage
- Accessing internal system resources and information
- Kernel transaction manager services
- Advanced Security, ACLs, DACLs, protecting resources
- Advance Windows Messaging and Hooks
- Advanced I/O services
- Advanced memory management functions and services
- Advanced Services creation and management
- Using advanced synchronization mechanisms
- Interposes Communication services
- Security integrity level consideration
- Registry access and structure
- Windows diagnostic services and error trapping